

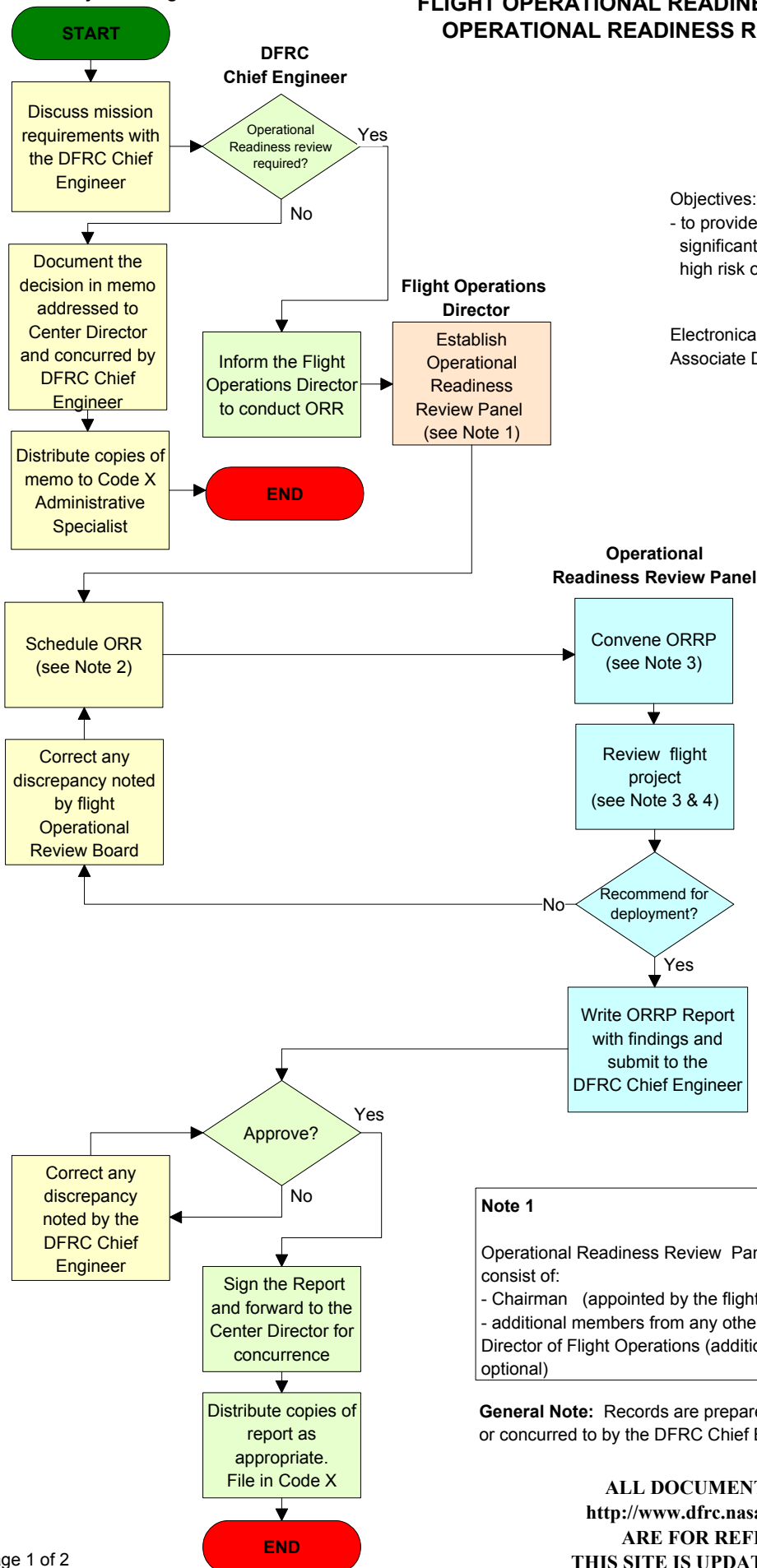
FLIGHT OPERATIONAL READINESS REVIEW (ORR) AND OPERATIONAL READINESS REVIEW PANEL (ORRP)

Dryden Flight Research
Center
DCP-X-020
Revision: A

Objectives:

- to provide flight operations oversight of significant aircraft deployments and/or high risk operations

Electronically Approved By:
Associate Director



Note 1

Operational Readiness Review Panel (ORRP) members consist of:

- Chairman (appointed by the flight operations director)
- additional members from any other source requested by Director of Flight Operations (additional members are optional)

General Note: Records are prepared by the ORRP, approved or concurred to by the DFRC Chief Engineer and filed in Code X.

ALL DOCUMENTS ON THIS SITE
<http://www.dfrc.nasa.gov/DMS/dms.html>
ARE FOR REFERENCE ONLY
THIS SITE IS UPDATED EVERY 30 DAYS

Note 2

The Operational Readiness Review must be held sufficiently in advance of the first deployed flight to allow correction of any deficiencies. Normally this review is presented by the Mission Manager. At this time, project hardware should be completed and installed on board the aircraft, all aircraft modifications should be completed, and the experimental procedures and initial flight plans should be finalized.

Note 3

As a minimum, ORR will address the following issues:

- A. Mission (science or research) objectives
- B. Timeline and flight plan (itinerary)
- C. Crew and passenger manifest
- D. Aircraft maintenance status
- E. Team Coordinators and Communications Plan
- F. Contingency and emergency planning
- G. Hazard analysis and risk assessment
- H. Deployment movement plans
 - 1. Site selection
 - 2. Logistics requirements and support in place
 - 3. Personnel on deployment: qualification and approval
 - 4. International agreements and foreign clearances
 - 5. Host base agreements
 - 6. Briefing of host airfield fire/emergency response crews
 - 7. Identification of suitable medical facilities nearest to deployment site
- I. Type and number of flights
- J. Review of Operational Risk Assessment and Operational Risk Management Plan
- K. Operational plans
 - 1. Objectives
 - 2. Rules and procedures
 - a. Foreign requirements
 - b. Weather constraints
 - c. Mission rules, including go/no go
 - d. process for technical briefing clearance
- L. Security and safety
 - 3. Limitations
 - a. Aircraft
 - b. Crew and scientists
 - c. Special operating restrictions
 - 4. Communications with DFRC during deployment

Note 4

A list of question pertinent to deployments are as follows:

TECHNICAL

1. Are operational objectives and proposed methods of accomplishment (technical approach) clearly defined and compatible?
2. Have technical support requirements been coordinated with elements to ensure performance and avoid schedule conflicts?
3. Are sufficient qualified personnel being utilized?
4. Is there a requirement for training, simulation, dry-run?
5. Are proposed facilities and equipment adequate?
6. Are special techniques or processes required? Are they provided for?
7. Is the planned gathering /recording of operational and safety-critical data adequate?
8. Are specific vehicle/equipment limits clearly defined and understood?
9. Is there an above-normal possibility that limits will be exceeded?
10. Has prior experience with similar operations, and qualification and other test data, been reviewed and utilized if appropriate?
11. Is the performance of the operation correctly specified in approved documentation (drawings, specifications, manuals, procedures, etc.)?
12. Is additional technical information required?

SAFETY

1. Is the planned sequence of operations logical and satisfactory from a safety standpoint?
2. Are hazards identified and criticality determined?
3. Is there any undue hazard to personnel, or possibility of damage to equipment?
4. Have hazards been eliminated? If not, are they controlled by safety devices, warnings, procedures, etc.?
5. Has identification been made of conditions having a high risk potential which cannot be minimized, including their relationship to program goals, scheduling, facilities, other programs?
6. Can the operation be accomplished more easily and safely by other methods?
7. Is the established operational envelope being exceeded?
8. If the envelope is being exceeded, is it authorized, are necessary precautions being taken, and are required controls established?
9. Have necessary emergency procedures been established and documented?
10. Are GO-NO GO criteria established and documented?
11. Is the GO-NO GO decision-maker identified?
12. Have the suitable medical facilities nearest to the deployment site been identified?
13. Is the overall operation acceptable to Projects, Engineering, Flight Operations, technical support elements, Flight Safety?

DOCUMENT HISTORY PAGE
This page is for informational purposes and does
not need to be retained with the document.

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<u>DATE APPROVED</u>	<u>ISSUE</u>	<u>PAGE</u>	<u>AMENDMENT DETAILS</u>
<u>4/14/99</u>	<u>Baseline</u>		
<u>See IDMS Document Master List</u>	<u>Rev A</u>	<u>All</u>	<u>Changed "Associate Director of Operations" to "DFRC Chief Engineer" throughout the flowchart.</u>